

CLAIMS

1. A skylight system including a prefabricated mounting frame and a prefabricated hood assembly, adapted to assemble together to form a skylight.
- 5 2. The skylight system of claim 1 wherein, said prefabricated mounting frame comprises a rectangular arrangement of extruded sections to form a rectangular support structure.
3. The skylight system of claim 2 wherein, said extruded
10 sections are provided with bottom flange portions adapted to seat on the batten timbers of a sloping roof.
4. The skylight system of claim 2 wherein, said extruded
15 sections are provided with a pair of closely spaced projecting flanges adapted to accept and retain pre-assembled flashing elements attached to said extruded sections.
5. The skylight system of claim 4 wherein, said flashing
20 elements along the two sloping sides of said skylight, comprise roll-formed metal strips, said roll-formed strips adapted to interface with roof covering material.

6. The skylight system of claim 4 wherein, said flashing elements along the two horizontal sides of said skylight comprise malleable metal strips.

5 7. The skylight system of claim 2 wherein, said prefabricated mounting frame is provided with sprung retainer elements attached to each of the extruded elements forming the sides of said rectangular support structure.

10 8. The skylight system of claim 7 wherein, said sprung retainer elements are in the form of bent metal strips with the lower ends of said strips forming an angle with said sides of said rectangular support structure, such that said lower ends deflect inwardly from said sides.

15 9. The skylight system of claim 3 wherein said extruded members are provided with an horizontal ledge extending outwardly from said extruded members, said horizontal ledge adapted to support a sealing strip, said sealing strip forming a perimeter seal around the top of said prefabricated mounting frame.

20 10. The skylight system of claim 1 wherein, said prefabricated hood assembly includes perimeter capping, glass layers, internal sash frame, extruded seal elements and extruded clamping members.

11. The skylight system of claim 10 wherein, said perimeter capping is fabricated from extruded elements adapted to provide framing of said glass layers and support for said clamping members.
- 5 12. The skylight system of claim 11 wherein, said internal sash frame is retained within said perimeter capping by said clamping members, said clamping members provided with a clamping ledge adapted to engage in grooves provided in the outer faces of said internal sash frame.
- 10 13. The skylight system of claim 10 wherein, said extruded seal elements provide support for said glass layers.
14. The skylight system of claims 10 to 13 wherein, said glass layers are clamped between said perimeter capping, said extruded seal elements and said internal sash frame by said clamping members.
- 15 15. The skylight system of claim 14 wherein, said clamping members are fastened to said perimeter capping by self tapping screws.
- 20 16. The skylight system of any of claims 1 to 15 wherein, said prefabricated hood assembly is adapted for assembly with said prefabricated mounting frame so that said internal sash frame locates within said

prefabricated mounting frame; said clamping members seating on said perimeter seal.

5 17. The skylight system of claim 16 wherein, said prefabricated hood assembly is retained in sealing engagement with said prefabricated mounting frame by means of said sprung retainer elements engaging in recesses provided in the outer surfaces of said internal sash frame.

10 18. The skylight system of claim 15 wherein, said prefabricated mounting frame is provided with an extruded hinge section; said hinge section adapted to be a clip-on attachment to one of said extruded sections of said prefabricated mounting frame.

15 19. The skylight system of claim 18 wherein, said hinge section includes an extruded lobe element, said lobe element being of substantially circular section and further including a convex extruded arcuate guide segment concentric with said lobe element.

20 20. The skylight system of claim 19 wherein, at least one of said extruded elements of said perimeter capping of said prefabricated hood assembly includes an extruded hinge element of partially cylindrical form and a concave extruded arcuate guide segment concentric with said hinge element; said hinge element and said

5 concave extruded arcuate guide segment adapted to mate
with said lobe element and said convex extruded
arcuate guide segment so as to allow rotation of said
prefabricated hood assembly about said lobe element
when one of said extruded hinge elements of said
perimeter capping is assembled with said lobe element.

10 21. The skylight system of claim 20 wherein, the degree of
rotation of said prefabricated hood assembly is
controlled by a latching mechanism within the limits
of rotation allowed by said extruded lobe element,
said extruded hinge element and said arcuate guide
segments.

15 22. The skylight system of claim 15 wherein said
prefabricated hood assembly is provided along one side
of said perimeter capping with a raised cowling, said
cowling provided with an opening facing out over said
glass layers.

20 23. The skylight system of claim 22 wherein said cowling
is provided with a hinged flap, said flap adapted to
provide closure means for said opening.

24. The skylight system of claim 23 wherein, said hinged
flap is provided with extruded element along its upper
edge adapted to mate with extruded element at the
upper edge of said opening of said cowling, so as to

allow said hinged flap to rotate between a first open and a second closed position.

25. The skylight system of claim 24 wherein, the status of said hinged flap is changed from closed to open by means of the outstroke of a solenoid actuator.
26. The skylight assembly of claim 24 wherein, the status of said flap is changed from open to closed by means of the instroke of said solenoid actuator and a return spring.
27. The skylight system of claim 23 wherein, said cowling houses an electrically driven exhaust fan assembly.
28. The skylight system of any of claims 1 to 26 wherein, said extruded seal element is of the form of an extruded strip, said strip provided with a plurality of co-extruded ridges on a first side of said strip and a projecting co-extruded tongue on an opposite side of said strip.
29. The skylight system of claim 28 wherein, said co-extruded ridges are broached at intervals by a post-extruding operation to allow the passage of water condensate.
30. The skylight system of claim 29 wherein, said extruded strip is provided with through holes, punched through

said strip in a post-extruding operation to allow the egress of water condensate.

31. The skylight system of claims 29 or 30 wherein said flashing elements are adapted to engage with
5 corrugated flashing elements adapted to join said flashing elements to corrugated metal sheeting of a roof.

32. The skylight system of claims 29, 30 or 31 wherein said flashing elements are adapted to so engage with
10 said corrugated flashing elements as to allow for sideways adjustment of said skylight relative to the location of corrugations of said metal sheeting.

33. The skylight system of any one of claims 29 to 32 wherein said flashing attached to the lower edge of
15 said skylight is comprised of a sheet of malleable "O" tempered aluminium; said sheet provided along a lower edge with corrugations.

34. The skylight system of claim 33 wherein said corrugations provide an additional material along said
20 edge; said material allowing for conformation to profiles of the tiles of a tiled roof.

35. A method for the installation of a skylight; said method including the steps of:

- 28 -

- (a) removal of sufficient tiles from a tiled roof to make an opening for the installation of a rectangular support structure,
- (b) Attaching said support structure to timber elements of said roof,
- (c) arranging flashing elements pre-assembled to said rectangular support structure.

36. The method of claim 35 wherein a flashing element arranged along a higher edge of said skylight is arranged under a layer of tiles adjacent an upper edge of said opening.

37. The method of claims 35 or 36 wherein a flashing element arranged along a lower edge of said rectangular support structure is arranged over a layer of tiles adjacent a lower edge of said opening.

38. The method of claims 35, 36 or 37 wherein flashing elements arranged along each sloping side of said rectangular support structure are arranged to lie underneath adjoining tiles along a higher portion of each side of said opening; said flashing elements arranged so as to emerge from between said tiles so as to overlie a lower portion of each side of said opening.